

150°C, and a molecular weight (weight average basis) within a range of 3,000 to 100,000, said fixative contained in a separate cartridge from said ~~ink~~ print cartridges.

5. (Amended) The fixative of Claim 1 wherein said polymer is a polymerized monomer or said copolymer is at least two copolymerized monomers, said monomer selected from the group consisting of (a) acrylic and methacrylic acids and salts thereof, (b) esters of acrylic and methacrylic acids, (c) amides of acrylic and methacrylic acids, (d) hydroxy amides of acrylic and methacrylic acids, (e) polyethylene glycol esters of acrylic and methacrylic acid, (f) polyalkylene glycol esters of acrylic and methacrylic acid, (g) sulfoalkyl(aryl) acrylate and methacrylate esters, and salts thereof, (h) polyalkylene (aryl) glycol diacrylates and dimethacrylates (i) triacrylates, trimethacrylates, tetraacrylates, and tetramethacrylates (j) styrene and substituted styrene, (k) vinyl esters and alcohols, (l) vinyl ethers, (m) diallyldialkyl ammonium halides, (n) vinyl sulfonic acid and salts thereof, (o) N-vinylamides, (p) polyunsaturated betaines, (q) polyunsaturated sulfo-betaines, (r) polyunsaturated amine oxides, (s) polyunsaturated fatty acids, (t) polyethylene oxide alkyl alkenyl phenols, (u) polyalkylene and polyaryl glycol diacrylates and dimethacrylates, (v) polyalkylene and polyaryl divinyl ethers, (w) trimethylolpropane triacrylates and trimethacrylates, (x) alkoxylated trimethylolpropane triacrylates and trimethacrylates, (y) glycerol triacrylates and trimethacrylates, (z) alkoxylated glycerol triacrylates and trimethacrylates, (aa) pentaerythritol tetraacrylates and tetramethacrylates, and (ab) alkoxylated pentaerythritol tetraacrylates and tetramethacrylates.

6. (Amended) The fixative of Claim 1 wherein said polymer is a polymerized monomer or said copolymer is at least two copolymerized monomers, said monomer selected from the group consisting of allyl methacrylate, allyl acrylamide, N-vinyl carbazole, N-vinyl pyrrolidone, vinyl imidazole, vinyl pyridine, 1,4-diisocyanatobenzene, toluene diisocyanate, 4,4'-methylenebis(phenyl isocyanate), polymethylene poly(phenyl isocyanate), dicyclohexylmethane diisocyanate, and 1,4-cyclohexane diisocyanate.

10. (Amended) A fixative for ink-jet printing, said fixative for underprinting or overcoating, or both, at least one ink printed on a print medium, each said ink printed from a separate print cartridge, said fixative comprising a two-part system and consisting essentially of (1) a

reactive monomer or oligomer in a vehicle, said reactive monomer or oligomer selected from
5 the group consisting of iso-cyanates and epoxy-terminated oligomers and (2) at least one second
component selected from the group consisting of polyols and polyvinyl alcohols plus a base
catalyst, said reactive monomer or oligomer contained in a separate cartridge from said at least
one ink-jet ink print cartridge and said at least one second component contained in said at least
10 one ink-jet ink print cartridge, said reactive monomer or oligomer reacting with said at least one
second component on said print medium to form a polymer, said polymer having a glass transi-
tion temperature within a range of -50°C to +100°C and a melting temperature within a range of
30°C to 150°C.

Please cancel Claim 2, without prejudice.

IN THE ABSTRACT:

Please replace the Abstract with the following re-written Abstract:

One-part and two-part fixatives are provided in conjunction with underprinting or over-
coating at least one ink printed on a print medium. The one-part fixative comprises a polymer in
a vehicle. The polymer is selected from the group consisting of vinyl-based polymers, condensa-
tion polymers, and copolymers thereof and has a glass transition temperature within a range of -
50°C to +100°C, a melting temperature within a range of 30°C to 150°C, and a molecular
weight (weight average basis) within a range of 3,000 to 100,000. The two-part fixative com-
prises (1) a reactive monomer or oligomer in a vehicle, the reactive monomer or oligomer se-
lected from the group consisting of iso-cyanates and epoxy-terminated oligomers, and (2) at
least one second component selected from the group consisting of polyols, polyvinyl alcohols,
and base catalysts. Enhancement of waterfastness, smearfastness, smudgefastness, and lightfast-
ness is provided by use of the fixative solution.